

Patent Abstracts of Japan

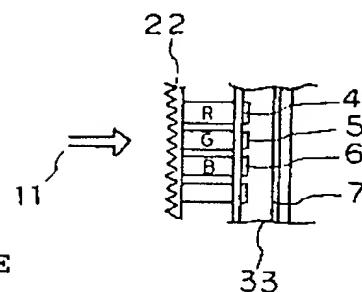
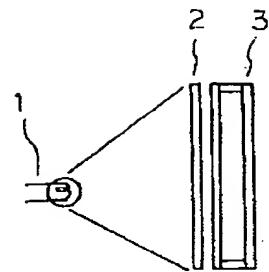
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 PATENTEE : SEIKO EPSON CORP  
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TITLE : LIQUID CRYSTAL DISPLAY DEVICE



**ABSTRACT** : PURPOSE: To obtain a full-color liq. crystal display device without using a color filter by fitting a means of separating light into its spectral components to the light source side of a position corresponding to each image element of a liq. crystal display.  
 CONSTITUTION: A liq. crystal display device is composed of a liq. crystal display 3 and a light source 1 for illuminating the display 3 and a means 2 of separating light into its spectral components is fitted to the light source side of a position corresponding to each image element of the display 3. Part 11 of light emitted from the light source 1 is separated into its spectral components through a fine diffraction grating 22 and voltage impressed between segment electrodes 4-6 placed opposite to red, green and blue components R, G, B and a common electrode 7 is made variable to vary the intensities of the components R, G, B. A full-color display is obtd. without using a color filter